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21 [Ajax timelines and the semantic web](#)

Ben Martin

January 2007 *Linux Journal*, Volume 2007 Issue 153

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(99.37 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

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Should we create a timeline on how we implement Timeline?

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22 [Composable ad hoc location-based services for heterogeneous mobile clients](#)

Todd D. Hodes, Randy H. Katz

October 1999 *Wireless Networks*, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(403.18 KB\)](#)Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

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23 [Implementation of framework for developing multi-agent based automated negotiation systems](#)

Hyung Rim Choi, Hyun Soo Kim, Soon Goo Hong, Young Jae Park, Young Sung Park, Moo Hong Kang

August 2005 I CEC '05: Proceedings of the 7th international conference on Electronic commerce

Publisher: ACM

Full text available: [pdf\(741.01 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 103, Citation Count: 0

A multi-agent technology has emerged as new paradigms that can flexibly and promptly cope with various environmental changes and complex problems. Accordingly, many studies have been carried out to establish multi-agent systems in an effort to solve ...

Keyw ords: automated negotiation system, multi-agent

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24 [Automatic building of frameworks for processing XML documents](#)

Luiz Fernando Gomes Soares, Rogério Ferreira Rodrigues, Romualdo Monteiro de Resende Costa

November 2006 *WebMedia '06: Proceedings of the 12th Brazilian symposium on Multimedia and the web*

Publisher: ACM

Full text available: [pdf\(384.67 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 72, Citation Count: 0

This paper presents a two-layer model for the development of XML-based language compilers. In the first layer, a framework (generic compiler) is automatically generated from the XML Schema of a

selected language (the input language). Besides defining ...

Keywords: *middleware declarativo*, NCL, SBTVD, TV digital, XML, framework, maestro

25 Toward an engineering discipline for grammarware



Paul Klint, Ralf Lämmel, Chris Verhoef

July 2005 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 14 Issue 3

Publisher: ACM

Full text available: pdf(710.42 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 259, Citation Count: 9

Grammarware comprises grammars and all grammar-dependent software. The term *grammar* is meant here in the sense of all established grammar formalisms and grammar notations including context-free grammars, class dictionaries, and XML schemas as ...

Keywords: Grammarware, automated software engineering, best practices, generic language technology, grammar-dependent software, grammars, language processing, metamodeling, model-driven development, parsers, software evolution, software transformation

26 Finding Errors in Interoperating Components

Mark Grechanik

May 2007 IWI CSS '07: Proceedings of the Second International Workshop on Incorporating COTS Software into Software Systems: Tools and Techniques

Publisher: IEEE Computer Society

Full text available: pdf(822.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 68, Citation Count: 0

Two or more components (e.g., objects, modules, or programs) interoperate when they exchange data, such as XML data. Currently, there is no approach that can detect a situation at compile time when one component modifies XML data so that it becomes incompatible ...

27 A comprehensive approach for the development of modular software architecture description languages



Eric M. Dashofy, André van der Hoek, Richard N. Taylor

April 2005 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 14 Issue 2

Publisher: ACM

Full text available: pdf(3.51 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 345, Citation Count: 7

Research over the past decade has revealed that modeling software architecture at the level of components and connectors is useful in a growing variety of contexts. This has led to the development of a plethora of notations for representing software ...

Keywords: ArchStudio 3, Architecture description languages, XML, xADL 2.0

28 Taxonomy of XML schema languages using formal language theory



Makoto Murata, Dongwon Lee, Murali Mani, Kohsuke Kawaguchi

November 2005 ACM Transactions on Internet Technology (TOIT), Volume 5 Issue 4

Publisher: ACM

Full text available: pdf(1.34 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 51, Downloads (12 Months): 283, Citation Count: 14

On the basis of regular tree grammars, we present a formal framework for XML schema languages. This framework helps to describe, compare, and implement such schema languages in a rigorous

manner. Our main results are as follows: (1) a simple framework ...

Keywords: XML, interpretation, schema, tree automaton, validation

29 Towards an enterprise XML architecture

 Ravi Murthy, Zhen Hua Liu, Muralidhar Krishnaprasad, Sivasankaran Chandrasekar, Anh-Tuan Tran, Eric Sedlar, Daniela Florescu, Susan Kotsovolos, Nipun Agarwal, Vikas Arora, Viswanathan Krishnamurthy
June 2005 SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM


Full text available:  pdf(260.69 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 116, Citation Count: 5

XML is being increasingly used in diverse domains ranging from data and application integration to content management. Oracle provides an enterprise wide platform for managing all types of XML content. Within the Oracle database and the application server, ...

30 Building adaptable and reusable XML applications with model transformations

 Ivan Kurtev, Klaas van den Berg
May 2005 WWW '05: Proceedings of the 14th international conference on World Wide Web
Publisher: ACM

Full text available:  pdf(194.71 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 99, Citation Count: 2


We present an approach in which the semantics of an XML language is defined by means of a transformation from an XML document model (an XML schema) to an application specific model. The application specific model implements the intended behavior of documents ...

Keywords: MDA, XML, XML processing, model transformations, transformation language

31 Finding errors in components that exchange xml data

 Mark Grechanik
November 2007 ASE '07: Proceedings of the twenty-second IEEE/ACM international conference on Automated software engineering

Publisher: ACM

Full text available:  pdf(579.33 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 82, Citation Count: 0

Two or more components (e.g., objects, modules, or programs) interoperate when they exchange data, such as XML data. Using *Application Programming Interface (API)* calls exported by XML parsers remains a primary mode of accessing and manipulating ...

Keywords: XML schema, bisimulation, interoperability, program analysis, schema validator, symbolic execution

32 Reducing application code complexity with vocabulary-specific XML language bindings

 Jules White, Boris Kolpackov, Balachandran Natarajan, Douglas C. Schmidt
March 2005 ACM-SE 43: Proceedings of the 43rd annual Southeast regional conference - Volume 2, Volume 2

Publisher: ACM

Full text available:  pdf(498.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 71, Citation Count: 0

The eXtensible Markup Language (XML) has become a ubiquitous data exchange and storage format. A variety of tools are available for incorporating XML-based data into applications. The most common XML tools (such as parsers for SAX and DOM) provide low-level ...

Keywords: C++ , DOM, SAX, W3C XML schema, XML, vocabulary-specific language binding

33 [XDuce: A statically typed XML processing language](#)



Haruo Hosoya, Benjamin C. Pierce

May 2003 ACM Transactions on Internet Technology (TOIT), Volume 3 Issue 2

Publisher: ACM

Full text available: pdf(242.48 KB)

Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 136, Citation Count: 36

XDuce is a statically typed programming language for XML processing. Its basic data values are XML documents, and its types (so-called *regular expression types*) directly correspond to document schemas. XDuce also provides a flexible form of *regular* ...

Keywords: Type systems, XML, subtyping, tree automata

34 [Evaluation of datalog extended with an XPath predicate](#)



Royi Ronen, Oded Shmueli

November 2007 WIDM '07: Proceedings of the 9th annual ACM international workshop on Web information and data management

Publisher: ACM

Full text available: pdf(252.53 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 104, Citation Count: 0

XPath^l is a logical language for processing XML and relational data. The language is essentially Datalog augmented with a new type of predicate, *XPath Expression Predicate*, which is dedicated to XPath processing. It may be used ...

Keywords: XML, XML and relational processing, datalog

35 [Using XForms to simplify Web programming](#)



Richard Cardone, Danny Soroker, Alpina Tiwari

May 2005 WWW '05: Proceedings of the 14th international conference on World Wide Web

Publisher: ACM

Full text available: pdf(1.03 MB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 175, Citation Count: 2

The difficulty of developing and deploying commercial web applications increases as the number of technologies they use increases and as the interactions between these technologies become more complex. This paper describes a way to avoid this increasing ...

Keywords: J2EE, MVC, Web application, XForms, XMLBeans, eclipse, visual builder

36 [Design of Large-Scale Polylingual Systems](#)



Mark Grechanik, Don Batory, Dewayne E. Perry

May 2004 ICSE '04: Proceedings of the 26th International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available: pdf(174.25 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 25, Citation Count: 2

Building systems from existing applications written in two or more languages is common practice. Such systems are polylingual. Polylingual systems are relatively easy to build when the number of APIs needed to achieve language interoperability is small. ...

37 [Status report: layered streaming XML processing with modules](#)

Tyng-Ruey Chuang, Max Schäfer

October 2007 ML '07: Proceedings of the 2007 workshop on Workshop on ML

Publisher: ACM

Full text available:  [pdf\(237.50 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 31, Citation Count: 0

We report on our experience in designing and implementing a layered streaming XML processing library in Objective Caml, which allows the user to parse documents at different abstraction levels and switch between these levels on the fly in a typesafe ...


Keywords: ML, XML, functional programming, modular software, modules, streaming XML processing

38 [An environment for maintaining computation dependency in XML documents](#)

Dongxi Liu, Zhenjiang Hu, Masato Takeichi

November 2005 DocEng '05: Proceedings of the 2005 ACM symposium on Document engineering

Publisher: ACM

Full text available:  [pdf\(236.83 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 20, Citation Count: 0

In the domain of XML authoring, there have been many tools to help users to edit XML documents. These tools make it easier to produce complex documents by using such technologies as syntax-directed or presentation-oriented editing, etc. However, when ...


Keywords: XML, computation dependency, functional programming, lazy evaluation, programmable structured document

39 [A Java-based framework to support computer-assisted creation of structured XML documents](#)

Andrea Trentini

April 2002 ACM SIGAPP Applied Computing Review, Volume 10 Issue 1

Publisher: ACM

Full text available:  [pdf\(1.00 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 22, Citation Count: 0

In the management of document-based information, the structure of the document itself is very important. In the XML world you can use a DTD (Document Type Definition) or XMLSchema to define that structure. But not everything can be described (and forced) ...



Keywords: DTD, XML, XMLSchema, document architecture, document object model

40 [Extensible programming for the 21st century](#)

Gregory V. Wilson

December 2004 Queue, Volume 2 Issue 9

Publisher: ACM

Full text available:  [pdf\(366.22 KB\)](#);  [html\(36.03 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 138, Citation Count: 2

Is an open, more flexible programming environment just around the corner?